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1. OSD12-T05: Theory-Driven Protocols for Replacing Elemental Composition of Strategic Materials

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

Objective: Use theory and computing to expedite discovery of new, thermodynamically stable compounds as replacements for strategic materials that contain rare, expensive or difficult to obtain elements of the periodic table. Description: The angst surrounding scarce and strategic materials availability has prompted numerous workshops and policy studies focusing on what to do. Mitigating action ...

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2. OSD12-T06: Sustainable Alloy Design: Rare Earth Materials Challenge

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: The objective of this basic research announcement is building the foundation for the discovery, characterization and predictability of non rare-earth containing high temperature aerospace alloys for high temperature applications. The program seeks highly innovative and nontraditional approaches that advance the fields of high temperature structural materials, and electro-physics resea ...

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3. OSD12-T07: HIGH STRENGTH AND TOUGHNESS TUNGSTEN CARBIDE (WC) WITH NON-COBALT (Co) MATRICES

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

Description C Increasing weapon lethality for the individual soldier has been a long-standing goal of the US Army. Tungsten carbide (WC) is a common material used in many small caliber armor-piercing projectiles. These projectiles act as rigid bodies during impact at 0 degrees obliquity and achieve twice the penetration depth of equivalent depleted uranium and tungsten heavy-alloy projectiles. ...

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4. OSD12-T08: Effective Cyber Situation Awareness (CSA) Assessment and Training

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To develop a novel human-in-the loop simulation and assessment system that integrates various network models, attack graph visualization, low-level vulnerability information, and decision support functions for cyber situation awareness research and for assessing and enhancing team cyber situation awareness and assisting cyber analyst training. DESCRIPTION: The recent increase in cyb ...

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5. OSD12-AU1: Anomalous System Behavior Detection & Alert System for Operators of Multi-Vehicle, Multi-Sensor Autonomy

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Enable decision support for the supervisory control of highly autonomous systems by developing one or more Behavioral Anomaly Detection Services. The underlying algorithms, embodied as re-useable services would enable human supervisors to exploit, benefit from, and interact with technologies on the basis of their behavior, without requiring a deep understanding of the functions in the ...

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6. OSD12-AU2: Model Driven Autonomous System Demonstration and Experimentation Workbench

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a systems engineering tool to automate storage of data for autonomous systems and to deploy components necessary to implement the system. DESCRIPTION: Large amounts of data are generated on autonomous systems including but not limited to imagery data, geospatial information, platform health data, and specific mission-related sensor data. Current software used to classify an ...

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7. [OSD12-AU3: Autonomous Landing Zone Detection](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop vision-based hardware and software to enable Small Unmanned Air Systems (SUAS) to autonomously identify landing zones to enable other autonomous system teammates to land and re-launch. DESCRIPTION: Small Unmanned Air Systems (SUAS) are being developed for numerous applications, but size and weight constraints severely limit the endurance of such vehicles1, 2. Some of the ...

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8. [OSD12-AU4: Cooperative Autonomous Tunnel Mapping](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an autonomous team of aerial scouts capable of cooperatively exploring an unknown indoor environment, and communicating their findings to each other and their human operators. DESCRIPTION: There are numerous applications for unmanned/robotic systems operating in complex urban or indoor environments1, 2. A high level of autonomy is desired to reduce operator workload, and ...

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9. [OSD12-AU5: Fashioning of an Adaptive Workspace through Autonomous Services](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop robust technologies that promote an"impedance match"or"human-IT partnership"that increases the analyst's agility and compliment the human. Traditional approaches to human-computer interaction focus on relatively simplistic human behavior (e.g., key strokes, mouse clicks, etc,). This effort will concentrate on the analyst"s experience by providing a means to address task off-loa ...

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10. [OSD12-AU6: Autonomy for Seeking, Understanding, and Presenting Information](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

Objective: Develop scalable computing algorithms capable of performing autonomous sense making operations based on learning and/or training. Specifically, reduce the effect of operator information overload by autonomously gathering relevant information for decision-

makers and drawing meaningful conclusions from massive amounts of data, therefore optimizing human-agent interactions. Description ...

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